

IYL Series DC 2-Wire Cylindrical Proximity Switch

Milbo



- Features
- Easy for connection, installation and application
- Wide input range: 10~60VDC
- Protections: Overload/ Surge suppressor/ Short circuit
- Flexible cable
- Degree of protection: IP67
- Ambient temperature: -25~+70°C

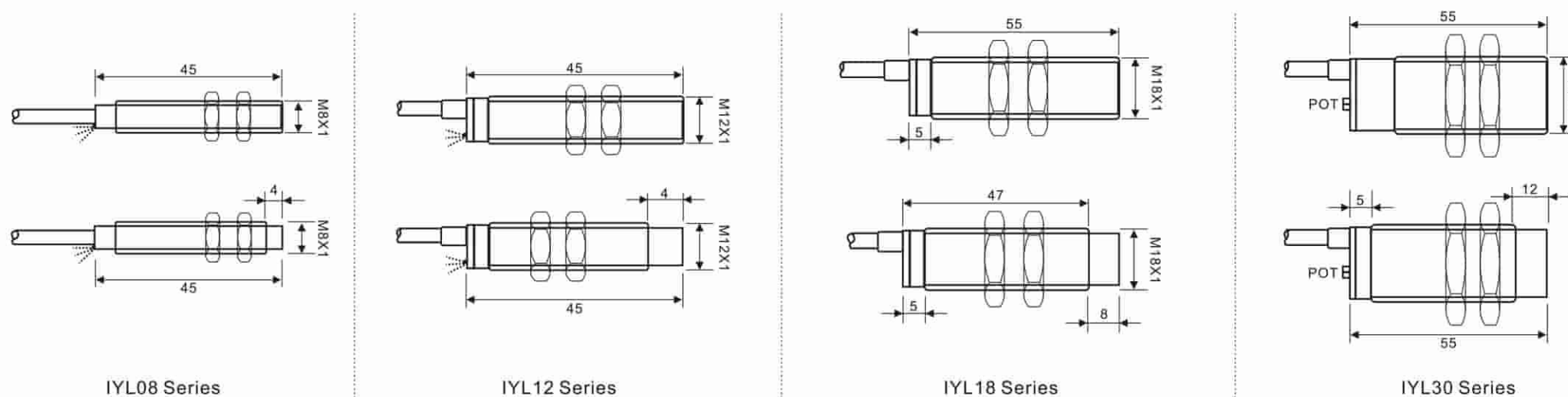
IYV5	12	-	04	A	N
Series IYL Series	Size 08:M08 12:M12 18:M18 30:M30		Sensing Distance 02:2mm 04:4mm 08:8mm	Output Mode A:NO B:NC	Shielding F:Shielded N:Unshielded

Model								
NO	IYL08-01AF	IYL08-02AN	IYL12-02AF	IYL12-04AN	IYL18-05AF	IYL18-08AN	IYL30-10AF	IYL30-15AN
NC	IYL08-01BF	IYL08-02BN	IYL12-02BF	IYL12-04BN	IYL18-05BF	IYL18-08BN	IYL30-10AF	IYL30-15BN
Specification								
Sensing Distance ^①	1mm	2mm	2mm	4mm	5mm	8mm	10mm	15mm
Set Distance	0~0.8mm	0~1.6mm	0~1.6mm	0~3.2mm	0~4mm	0~6.4mm	0~8mm	0~12mm
Standard Sensing Object	8×8×1mm Ferrous metal		12×12×1mm Ferrous metal		18×18×1mm Ferrous metal		30×30×1mm Ferrous metal	
Response Frequency ^②	1.2KHz	1.2KHz	300Hz	300Hz	300Hz	300Hz	300Hz	300Hz
Response Time	0.3ms	0.3ms	1.5ms	1.5ms	1.5ms	1.5ms	1.5ms	1.5ms
Differential Travel	15% Max. of sensing distance							
Detectable Object	Ferrous Metal (The sensing distance decreases with non-ferrous metal. Refer to Data sheet)							
Power Supply Voltage (Operating Voltage Range)	10-60VDC, Ripple(p-p) 10% Max. (10-60DC full wave rectifier power supply)							
Load Current	3~100mA							
Residual Voltage	6V Max. @100mA load and 2M cable							
Leakage Current	0.8mA Max. @ 60VDC							
Indicators	Red							
Operation Mode	A-Model: NO, B-Model: NC.							
Short Circuit Protection	≥120mA							
Protection Circuit	Overload/ Surge suppressor/ Short circuit protection							
Ambient Temperature Range	Operating / storage: -25~+70°C (with no icing or condensation)							
Ambient Humidity Range	Operating / storage: 35-95% (with no condensation)							
Temperature Influence	±10% Max. of sensing distance @+25°C in the temperature range							
Insulation Resistance	50MΩ Min. (at 500VDC) between current carrying parts and case							
Dielectric Strength	1000VAC 50/60Hz for 1 minute between current carrying parts and case							
Vibration/Shock Resistance	IEC 60947-5-2,Part7.4.1 / IEC 60947-55-2,Part7.4.2							
EMC	RFI>3V/M / EFT>1KV / ESD>4KV(contact)							
Degree of Protection	IEC standards EN60529:IP67							
Connection Method	Pre-wired 2M							
Weight (Packed state)	~40g	~45g	~65g	~70g	~110g	~120g	~200g	~220g
Materials of Case	Nickel-plated brass							
Materials of Sensing Surface	PBT							
Accessories	Clamping nuts. Mounting bracket available(optional)							

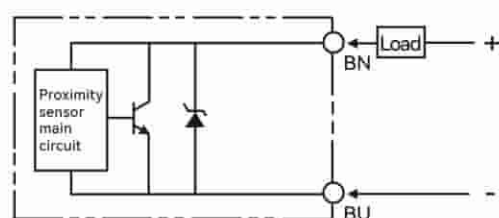
① Sensing distance, range ±10%. ② Response frequency is an average value. Measure condition is as follow: standard sensing object, a setting distance of half the sensing distance.

Dimension Diagram

Unit: mm



Wiring Diagram



Note: Both the +V and 0V sides can be connected to the load